

BUILDING-INTEGRATED PHOTOVOLTAICS

What Are They?

Building Integrated Photovoltaics (BIPV) are multifunctional solar products that generate electricity while also serving as construction materials. Photovoltaic technology uses energy from the sun to produce electricity in an environmentally friendly way. If you have used a solar powered calculator, you have seen photovoltaics in action. Today's BIPV products are flexible in shape, function and color and can become an affordable, beneficial and attractive part of a building's design.



100 Kilowatt System, Berkeley, CA. Photo Courtesy of Powerlight

How is BIPV Used?

BIPV systems can be aesthetically integrated into a building during the initial stages of design or added retroactively. The durable BIPV material can be used for:

- Roofing and awnings
- Facades, curtain walls and spandrels
- Skylights, atrium areas and any other photovoltaic glass applications

Important Considerations

- Shading from other buildings or trees
- Average seasonal temperature
- Latitude of the site for optimal tilt and orientation

The power of solar



Photo Courtesy of United Solar Ovonic

Advantages of Using BIPV

- Architecturally clean and attractive
- Offsets the cost of facade, roofing or glazing materials
- Low maintenance costs, long life span (20-50 years)
- Buyers are willing to pay more for homes with BIPV
- Stabilizes electricity costs
- Lowers cooling needs with BIPV awnings
- Provides reliable electricity from clean, renewable energy



Photo Courtesy of Atlantis Energy Systems

BIPV designs & products*

Unisolar

(800) 843-3892 (248) 475-0100

www.uni-solar.com

Atlantis Energy Systems

(916) 438-2930

www.atlantisenergy.com

Powerlight

(866) 737-6527 (510) 540-0550

www.powerlight.com

GE Energy

(866) 750-3150 (302) 451-7500

www.gepower.com

*References to any companies are provided as a public service, and are not an endorsement, recommendation, or favoring of same by the State of California or the California Energy Commission.

For More Information

Renewable energy, rebates & tax incentives



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www.consumerenergycenter.org

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